INDEX

Volume 30, 1951

ABRASION: tooth surface; nylon and natural bristles, 522*
Acid: lactic, 100
——: production; different foods, 495*
——: ——; vitamins, 470*
——: ——; carbohydrate- and acid-containing substances, 126
——: ——; saliva; effects of metallic salts, 494*
——: retention; gold castings, 599*
——: pyruvic, 100
Acrylic: denture bases; fit, 496*
——: self-curing; pulp reaction, 498,* 524
Actinomyces: dentobacterial plaque, 88
Actinomycetes: carious lesions, 517*
ADAMS, E. C., JR.: caries; glucose degradation, 229
ADDELSTON, H. K.: x-ray diffraction; microcamera; tooth structure, 439, 476*, 478*
ADLER, P.: fluorides; caries experience, Hungary, 368
AFONSKY, D. A.: caries; Central China, 53, 463*
Agar-agar gel: dimensional changes, 281
Age: vertical dimension, 504*
ALDERMAN, N. E.: glossopyrosis; vitamin B_{12}, 515*
Aleut: dentition, 815
Alizarin: bone growth, 512*
——: bone mineralization, 511*
Alkaline phosphatase: gingiva, 461*, 792
Alloy particles: amalgam, 499*, 845
Alveolo-dental joint: examination technique, 638
Alveolar process: regeneration, 604
Amalgam: effect on dentin, 514*
——: physical properties, 499*, 845
Amblystoma punctatum: mandible development, 490*, 575
AMLER, M. H.: dentin penetration; effect of chemicals, 304*
Ammonia: anaerobic glycolysis, 656
——: lactobacillus, 470*, 542
——: saliva, 385
Ammoniated dentifrice: acid production; dental plaques, 495*
——: caries, 645
——: caries; hamster, 393
——: clinical test, 496*
——: lactobacillus counts, 503*
——: periodontal disease, 516*
——: urea and ammonium salt content, 388
Ammonium compounds: quaternary; dentifrices, 558
——salts: ammoniated dentifrices, 388
Amylase; saliva; sodium fluoride activation, 599*
Anemia: sickle cell; jaw studies, 520*
Anesthetic: local; intracaine amide, 462*
——: ——; levo-arterenol; vasoconstriction, 462*, 870
——: ——; physiological effects, 510*
——: ——; preliminary study, 463*
Anodic decalcification: teeth, 303*
Antibiotic levels: saliva, 495*
——: bactericidal effect, 481*
——: lactobacillus counts, 470*
——: fusobacteria; sensitivity, 799
——; see also specific names
ARMSTRONG, W. D.: fluoride; growing skeleton, 467*
——: radiocalcium; marginal adsorption; filling materials, 473*
Arthritis: dental foci, 504*
Articulation change: processing dentures, 500*
Attrition: eruption and growth rate; rat incisor, 521*
Aureomycin: herpetic gingivo-stomatitis, 459*
AVERY, J. A.: embryology; teeth, 490*
AVERY, J. K: hamster; caries; pouchectomy, 509*

BACTERIA: acid production, 100
——: antibiotic effects, 481*
——: calcium carbonate crystals, 642
——: dentinal caries, 766
——: mucinous polysaccharide production, 303*, 522*
——: see also specific names
BAKER, C. F.: silicate cements; physical properties, 145
BARBER, T. K.: dentin; amalgam effects, 514*
BARICH, F. T.: Class I malocclusion; comparative studies, 505*
BARTELS, H A.: calcium carbonate crystals; bacteria, 642
BARTELSTONE, H. J.: enamel; tooth penetration; radioactive iodine, 304*, 480*, 728
BAUME, L. J.: jaw growth; tooth development and eruption, 502*
——: postnatal growth; mandible; Macaca mulatta, 502*
——: ——; maxilla; Macaca mulatta, 501*
BECKS, H.: topical fluoride application; young adults, 757
BELGOROD, H. H.: dentin permeability; radioactive materials, 480*
BELL, M. E.: cetylamine; toxicity, 214
Bending properties: dental gold wires, 290
BERGGREN, H.: enamel permeability; fluorine, 169
——: ——; sugar solutions, 161
BERZINSKAS, V. G.: caries; ionizing radiation, 787
——: ——; rat; bilateral symmetry, 62

*Abstract only.

BESIC, F. C.: caries; in vitro, 483*, 708
BIBBY, B. G.: acid production; foods, 495*
——: ammoniated dentifrices; lactobacillus counts, 503*
——: caries production; hamsters; decalcification potentials, 485*
——: chlorophyll; effect on oral organisms, 469*
——: Presidential Address, I.A.D.R., 455
Bicarbonate; salivary buffer effect, 403
BLAYNEY, J. R.: fluoridation; caries experience; 12-, 13-, 14-year-olds, 465*, 670
BLECHMAN, H.: aqueous urea solution; endodontics, 503*
Blood: fluoride, 182
BOMAN, V. R.: mandibular condyle position; orthodontic treatment, 507*
Bone: fluoride, 467*
——: growth, 487*
——: ——; alizarin, 512*
——: radiocalcium uptake, 511*
BOWLER, F. T.: dental survey; children, 303*
BOYD, D. J.: dental caries; progression; second permanent molars, 465*
BRAUER, G. M.: self-curing resins chemistry, 497*
Bridgework: functional evaluation, 475*
BRIGHT, P. J.: vertical dimension; age, 504*
BRUCKNER, R. J.: caries prevalence; school children, 464*
BRUDEVOLD, F: ammoniated dentifrice; acid production; dental plaques, 495*
——: enamel surface; chemical studies, 477*
——: micro antimony electrode; intraoral pH, 523*
BRUMFIELD, R. C.: testing; dental gold alloys, 499*
Brushing: ammoniated dentifrices; caries, 393, 486*
——: see also dentifrice
Bur: cutting efficiency, 497*, 854
——: rotational speed; temperature rise, 497*, 737
BURNETT, G. W.: bacteriological studies; advancing dentinal lesions, 766
——: chemical compounds; dentin effects, 477*
BUSH, S. H.: gold wires; section size; mechanical properties, 745
——: wrought gold wires; section size, 500*
BUTCHER, E. O.: denervation and ischemia; dental effects, 265

CABRINI, R. L.: alkaline phosphates; gingiva, 28
Calcium: blood; vitamin D and parathyroid effects, 487
——: carbonate crystals: bacteria, 642
——: histochemical reaction, 489*
——: radioactive, 304*, 473*, 511*
CALLANDRA, J. C.: caries; glucose degradation, 229
CANFIELD, R. C.: radiation injury; teeth, 477*
CANTRIL, S. T.: radiation injury; teeth, 477*
Carbohydrate: enamel, 480*
Carbohydrate metabolism: saliva, 494*
Caries: acid production, 100
——: actinomyces, 88, 517*
——: albino rat; incidence, 382
——: ammoniated dentifrice, 388, 393, 495*, 503*, 516*, 645
——: artificial, 483*, 708
——: Central China, 53, 463*
——: children; Willamette Valley, 509*
——: chlorophyll, 510*
——: complex fluorides, 466*, 524
——: decalcification potential; foods, 485*
——: dentin; bacteriological studies, 766
——: dentobacterial plaque, 399, 423, 482*
——: diet, 53, 778
——: enamel matrix, 690
——: evaluation; reproducible method, 346
——; fluoride, 225, 514*
——: ——; complex, 466*
——: fluoridation; Evanston, 465*, 670
——: ——; Greece, 225
——: glucose degradation, 229
——: Greece; fluorine, 225
——: hamster, 139, 393, 484,* 485,* 509,* 778
——: histology, 690
——: incidence, 62, 464,* 465,* 512*
——: in vitro, 482,* 483,* 708
——: iodoacetic acid, 203
——: ionizing radiation, 787
——: nitrogen phosphorus, 97
——: physicochemical factors, 235
——: progression; second permanent molars, 465*
——: psychiatric patients, 806
——: quaternary ammonium compounds, 558
——: rat; bilateral symmetry, 62
——: ——; buccal and lingual surfaces, 484*
——: salivary gland extirpation, 486*
——: selenium, 523*
——: streptococcus salivarius, 116
——: sympathicotony; salivary glands, 783
——: see also decalcification
Carious areas: photoelectric determination, 513*
CARRANZA, F. A.: alkaline phosphatase; gingiva, 28
Carcinoma: oral; exfoliative cytology, 308
Carotid sinus: effects on Ludwig's angina, 489*
CARTER, W. J.: dentin; bound cholesterol, 837
——: dentinal protein; preservatives, 840
CASTALDI, C. R.: infectious gingivo-stomatitis; aureomycin, 459*
CATTONI, M.: lymphocytes; healthy gingiva, 486,* 627
Cavity preparation: enamel walls, 473*
Cephalometric radiographic studies; facial anomalies, 506*
Cetylamine: enamel decalcification, 218
——: toxicity, 214
CHAWLA, T. N.: cortisone acetate; periodontal tissues, 461*

Chelating agents: organic; demineralization, 472*
CHEN, E.: caries production; hamsters; decalcification potential, 485*
CHERNAUSEK, D. S.: ammoniated dentifrices; hamster caries, 393, 486*
——: ——; periodontal disease, 516*
——: hamster caries; dietary sugar levels, 778
——: periodontal disease; hamster, 802
Chewing ability: denture wearers, 314
Children: caries incidence, 464,* 509,* 512*
——: dental survey, 303*
——: salivary yeasts, 468*
CHILTON, N. W.: dolorimetric evaluation; dental patients, 822
China: caries, 53, 463*
Chlorophyll: caries inhibition, 510*
——: lactobacilli, 465*
——: oral organisms, 469*
Cholesterol: dentin, 837
CHRISTIAN, K.: bactericidal effect; antibiotics, 481*
CLARK, W. D.: caries: ionizing radiation, 787
Cleft palate management: 507*
CLEGG, C. T.: saliva; ammonia production, 385
CLUBB, R W.: hamster; caries; pouchectomy, 509*
COBE, H. M.: quaternary ammonium compounds; dentifrices, 558
COHEN, M.: antibacterial root canal cement, 475*
——: aqueous urea solution; endodontics, 503*
Collagenase: activity; saliva, 493*
——: oral environment, 493*
Condyle: removal; effect on mandible growth, 520*
——: resection; upper face growth, 491*
Connective tissue ground substance; gingivae, 792
——: tooth eruption, 322
COOLIDGE, T. B.: caries; nitrogen and phosphorus content, 97
——: enamel; carbohydrate content, 480*
COOPER, E. N.: acrylic denture bases; fit, 496*
Cornification: carcinoma, 308
——: leukoplakia, 260
——: oral mucosa, 4, 12
Cortisone: effect on rat fetuses, 488*
——: effect on young rats, 488*
——: periodontal tissues, 461*
COSTICH, E. R.: gingival disease; young women, 461*
COWIE, D. B.: fluorine adsorption; specific surface area, 467*
CROWELL, W. S.: amalgams; variations in physical properties, 499*, 845
CROWELL, G. E.: viral agent; dentinal destruction, 82
——: photoelectric determination; carious lesions; areas, 513*
CURBY, W. A.: radiopacity; intraoral method, 473*
Cysts: traumatic, 517*

DALTON, P. J.: dental disease; psychiatric patients, 806
DAM, H.: enamel depigmentation; protective effect of methylene blue, 508*
DAVIES, G. N.: ammonium ion dentifrice; caries control, 645
DEAKER, E. M.: cetylamine; toxicity, 214
Decalcification: anodic, 303*
——: enamel; fluorides; zinc-ferro-nitrate, 75, 189, 195
——: polycarboxylic acids, 484*
——: polyphosphates, 484*
——: versene, 484*
Defense mechanisms: mouth, 494*
Delinquency: tooth fracture, 513*
DE MENT, J.: anodic decalcification; teeth, 303*
——: natural radioactivity; teeth, 302*
Demineralization: organic chelating agents, 472*
Denervation: dental effects, 265
Density: rodent enamel, 828
Dentifrice: ammoniated, 388, 393, 486*, 495*, 496*, 503*, 516*, 645
——: quaternary ammonium compounds, 558
Dentobacterial plaque: acid production; ammoniated dentifrices, 495*
——: actinomyces, 88
——: micrococcus lactilyticus, 423, 482*
——: tetradecylamine effect, 399
Dentin: amalgam effect, 514*
——: cholesterol; bound, 837
——: destruction; viral agent, 82
——: effects of chemical compounds, 477*
——: fluoride content, 172, 360
——: lipids, 599*
——: permeability; radioactive materials, 480*
——: protein; preservatives, 840
——: ——; recovery, 565
Dentition: Aleut, 815
Denture: processing; change of articulation, 500*
——: bases: plastic teeth, bonding, 501*
——: wearers: chewing ability, 314
DETWILER, S.: mandible development, Amblystoma punctatum, 490*, 575
DEXTER, H.: viral agent; dentinal destruction, 82
Diet: caries, 53, 778
DIRKS, O. B.: caries evaluation; reproducible method, 346
DOBBS, E. C.: new local anesthetic agent, 463*
Dolorimetric evaluations; dental patients, 822
DOMM, L. V.: cortisone; rat growth, 488*
——: ——; —— fetuses, 488*
DONNELLY, D. F.: mucinous polysaccharide; oral bacteria, 522*
DOWNS, W. L.: complex fluorides; caries inhibition, 466*
DRIAK, F.: dental foci and arthritis, 504*
DUNNING, J. M.: dental disease, psychiatric patients, 806

EAR disturbance: masticatory apparatus, 523*
Edentulous jaws: x-ray studies, 504*
Editor's Viewpoint: 1, 157, 305, 453, 601, 753
EDWARDS, R. W.: edentulous jaws; x-ray study, 504*
Efficiency: masticatory performance, 874
EICKENBERG, C. F.: pleuropneumonia-like organisms; saliva, 415
Electron microscopy: enamel, 478*
——: thin sections, 476*
ELLINGER, F.: dental caries ionizing radiation, 787
ELLIOTT, H. W.: Ludwig's angina; carotid sinus studies, 489*
ELLIS, R. G.: sodium fluoride; dental calcium fluoride content, 360
Embryology: teeth, 490*
Enamel: caries; nitrogen and phosphorus, 97
——: carious; carbohydrate content, 480*
——: cuticle; microstructure, 478*
——: ——; fluorides; zinc-ferro-nitrate, 75, 189, 195
——: decalcification; fluorine, 177, 363, 515*
——: ——; surface active agents, 218
——: depigmentation; vitamin E; methylene blue protection, 508*
——: density distribution; x-ray diffraction; rodent, 828
——: fluorides, 169, 172, 177, 360, 466*, 467*, 515*
——: matrix, 478*
——: ——; histologic technique, 431
——: organic framework; electron microscopy, 478*
——: permeability, 161, 169, 480*, 728
——: proteinaceous materials, 479*
——: rodent; physical properties, 445
——: solubility; sodium monofluorophosphate, 466*
——: surface; chemical studies, 477*
——: x-ray diffraction, 478*
——: walls; cavity preparation method, 473*
Endodontics: urea solution, 503*
——: see also root canal
ENGEL, M. B.: collagenase activity; saliva, 493*
——: connective tissue ground substance; changes; tooth eruption, 322
——: mandible growth; condyle removal, 520*
——: parathyroid extract; serum mucoprotein, 492*
ENGLISH, J. A.: ionizing radiation; oral effects, 33
——: selenium; caries incidence, 523*
ENNEVER, J.: actinomyces; dentobacterial plaque, 88
——: dentobacterial plaque; micrococcus lactilyticus, 423, 482*
Enzyme inhibitors: lactobacillus counts, 470*
EPSTEIN, S.: levo-arterenol; vasoconstrictor activity, 462*, 870
Eruption: teeth; connective tissue ground substance changes, 322
Exfoliative cytology: leukoplakia, 260
——: oral carcinoma, 308
——: —— mucosa, 4, 12

FACIAL structures: occlusal planes; analysis, 505*
FANKUCHEN, I.: x-ray diffraction; microcamera; tooth structure, 439, 476*, 478*
Filling materials: radioactive calcium; adsorption, 473*
FISCHER, C. J.: blood calcium and phosphorus; vitamin D and parathyroid effects, 487*
——: mineral stress; vitamin D; parathyroids, 508*
FISCHER, T. E.: bonding; plastic teeth; denture bases, 501*
FISHER, B. J.: lactobacilli; acid production; vitamins, 470*
FLEET, I. J.: Class I malocclusion; comparative studies, 505*
Fluoridation: caries experience; Evanston, Illinois, 465*, 670
——: three-year study; Ottawa, Kansas, 465*
Fluoride: acidulated; enamel decalcification, 363, 519, 757
——: adsorption; enamel, 467*
——: blood, 182
——: bone; growing, 467*
——: calcium fluoride content; teeth, 360
——: caries; topical; adolescence, 514*
——: caries experience, Greece, 225
——: —— —— Hungary, 368
——: complex, 466*, 524*
——: consumption; tooth content, 172
——: dentin effects, 477*
——: enamel decalcification, 75, 189, 195
——: enamel permeability, 169
——: —— solubility, 177, 515*
——: salivary gland, 516*
——: salivary gland changes, 712
——: sodium monofluorophosphate, 466*
——: teeth; content, 172
——: topical; lactobacillus counts, 251, 514*
——: topical application; young adults, 519*, 757
——: vegetable fluorine content, 466*, 676
Focal infection: diagnosis, 515*
——: experimental study, 481*
Foci: dental; diagnosis; therapy, 504*
Foods: decalcification potential; caries production, 485*
FORBES, J. C.: salivary acid production; effects of metallic salts, 494*
FOSDICK, L. S.: enamel permeability, 480*
——: —— solubility; fluorine, 177
——: lactobacillus counts; antibiotics; enzyme inhibitors, 470*
Fractured teeth: delinquency, 513*
FRANER, C. E.: caries; ionizing radiation, 787

FREEMAN, R. S.: analysis; facial structures; occlusal planes, 505*
FRIDLEY, H. H.: functional evaluation; bridgework, 475*
FRIEDMAN, B. K.: lipids; dental tissues, 599*
FRISBIE, H. E.: caries; enamel matrix, 690
——: caries lesions; production in vitro, 482*
Fusobacteria: antibiotics, 799

GAARD, R.: cultural characteristics; actinomycetes; lactobacilli; streptococci, 468*
GANS, B. J.: sutural facial growth; metallic implant studies, 506*
GARDNER, D. E.: fluoride; blood, 182
——: fluorides; caries complex; inhibition, 466*
——: sodium monofluorophosphate; salivary acid production; hydroxy apatite solubility, 466*
Gasserian ganglion: chromatolysis; pulp removal, 496*
Geographic variation: cariogenic effects, 485*
GEORGI, C. E.: Streptococcus salivarius; dental caries, 116
GERBER, W. E.: cephalometric radiographic studies; skeletal pattern, 506*
GERENDE, L. J.: caries; rat; bilateral symmetry, 62
GIBILISCO, J. A.: chromatolysis; gasserian ganglion; pulp removal, 486*
GILDA, J. E.: rodent enamel; physical properties, 445
——: ——; density distribution; x-ray diffraction, 828
GILLIS, R. E.: lactobacillus glycolytic enzymes, 471*
Gingiva: alkaline phosphatase, 28, 461*
——: glycogen, 792
——: histochemical evaluation, 460*, 792
——: histochemistry, 792
——: lactation, 19
——: lymphocytes, 486*, 627
——: nutritional deficiency, 19
——: pregnancy, 19
Gingival diseases: young women, 461*
—— fibers: role, 331
——: topography, 331
Gingivo-stomatitis: see herpetic gingivostomatitis
Glands: labial and buccal; origin and distribution, 587
GLASS, R. L.: yeasts; saliva; children, 468*
GLICKMAN, I.: cortisone acetate; periodontal tissues, 461*
——: histochemistry; gingivae, 460*, 792
Glossopyrosis: vitamin B_{12}, 515*
GLOWACZ, C. R.: mandibular condyle position; orthodontic treatment, 507*
Glucose degradation: caries, 229
Glycogen: gingivae, 792
Glycolysis: anaerobic; ammonia urea, 656
Glycolytic enzymes: lactobacillus, 471*
GOLDBERG, H. J. V.: acid production; foods, 495*
——: caries-producing hamsters; decalcification potential, 485*
Gold: alloys; dental; comparative testing, 499*
——: castings; acid retention, 599*
——: dental wires; tensile and bending properties, 290
GOLDMAN, H. M.: gingival fibers; topography and role, 331
Gold wires: section size; mechanical properties, 745
——: wrought; effect of section size, 500*
GORLIN, R. J.: vitamin B complex deficiency; mandibular joint and periodontal changes, 337
GRABER, T. M.: analysis; facial structures; occlusal planes, 505*
——: bilateral mandibular condylar resection; upper face growth, 491
——: cleft palate management, 507*
Gram reaction: mechanism, 471*
GRANADOS, H.: enamel depigmentation; protective effect of methylene blue, 508*
GREEN, R. W.: enamel decalcification; surface active agents, 218
GREENBERG, L. A.: salivary acidity; carbohydrate- and acid-containing substances, 126
GREEP, R. O.: mineral stress; vitamin D; parathyroids, 508*
——: blood calcium and phosphorus; vitamin D; parathyroid effects, 487*
GROHS, R.: maxillary orthopedics, prosthetics, 509*
GROSSMAN, L. I.: bactericidal effect; antibiotics, 481*
Ground substance: connective tissue, 322, 792
Growth: mandible; effect of condyle removal, 520*
——: mandible; Macaca mulatta, 502*
——: maxilla; Macaca mulatta, 501*
——: sutural; facial studies, 506*
——: upper face; condylar resection, 491*
GURNEY, B. F.: intermediary carbohydrate metabolism; saliva, 494*

HACKEDORN, H. M.: mucinous polysaccharides; streptococci, 302*
HADJIMARKOS, D. M.: dental caries; Willamette Valley, 509*
HAGGARD, H. W.: salivary acidity; carbohydrate- and acid-containing substances, 126
HAMILTON, T. R.: focal infection; experimental study, 481
Hamster: caries, 139, 393, 485*, 509*, 778, 844*
——: periodontal disease, 802
HARRIS, R. S.: geographic variation; cariogenic effects; riboflavin, 485*
HAWES, R. W.: ammoniated dentifrice; clinical test, 496*

HAYDON, G. B.: sodium monofluorophosphate; salivary acid; hydroxy apatite solubility, 466*
Heat injury: pulp recovery, 486*
HEDSTROM, H.: enamel permeability; fluorine, 169
——: —— ——; sugar solutions, 161
HEIN, J. W.: chlorophyll; caries inhibition, 510*
——: complex fluorides; caries inhibition, 466*
——: gingival tissues; young women, 461*
——: hamster pouchectomy; caries, 509*
——: sodium monofluorophosphate; salivary acid production; hydroxy apatite solubility, 466*
HELMAN, E. Z.: hamster caries; dietary sugar levels, 778
HENRY, E. E.: cutting efficiency; dental burs, 497*, 854
HENSCHEL, C. J.: gold castings; acid retention, 599*
Herpetic gingivo-stomatitis: aureomycin, 459*
HESS, W. C.: dentin; bound cholesterol, 837
——: ——; preservatives, 840
——: dentinal protein; recovery, 565
HILL, I. N.: fluoridation; caries experience; 12-, 13-, 14-year-olds, 465*, 670
HILL, T. J.: caries prevalence; school children, 464*
——: lactobacillus; ammonia; urea, 470*, 542
Histochemistry: gingivae, 460*, 792
Histological method: demineralization; organic chelating agents, 472*
——: electron microscopy, 476*
——: enamel matrix, 431
HODGE, H. C.: caries inhibition; complex fluorides, 466*
——: fluoride exchange; fluoride fixation, 467*
HOFFMAN, H.: lactobacilli; nucleic acids; Gram reaction, 471*
HOFFMEISTER, F. S.: malocclusion; masticatory function, 474*
HOLLAND, M. R.: local anesthetic drugs; physiological effects, 510*
HOPPERT, C. A.: albino rat caries; relative incidence, 382
HORD, A. B.: sodium fluoride; effect on dental calcium fluoride content, 360
HOROWITZ, S. L.: mandibular architecture; effect of temporalis muscle, 276
HOWARD, T. J.: caries incidence; dental students, 465*
HUNT, H. R.: albino rat caries; relative incidence, 382
HURST, V.: caries lesions; production in vitro, 482*
——: cultural characteristics; actinomycetes; lactobacilli; streptococci, 468*
——; histochemical reaction; calcium, 489*
HUTTON, W. E.: histochemical reaction; calcium, 489*
——: proteinaceous materials; enamel, 479*
HYDE, R. W.: dental disease; psychiatric patients, 806
Hypercementosis: toxic goiter, 734

I.A.D.R.: executive proceedings, 524
——: index of participants, 458
——: officers elected, 530
——: presidential address, 455
——: proceedings, New York Section, November 9, 1950, 304
——: ——, ——, June 4, 1951, 599
——: ——, Pacific Northwest Section, October 22, 1950, 302
——: ——, twenty-ninth general meeting, 455
——: register; new members, 530
——: report; board of editors, 526
——: ——; publication committee, J. D. R., 527
IMHOFF, A. H.: salivary lactobacillus counts; topical fluoride applications, 251
Intercaine amide: local anesthetic, 462*
Iodoacetic acids: caries, 203
IRELAND, R. L.: Streptococcus salivarius; dental caries, 116
Ischemia: dental effects, 265
——: —— —— —— ——; mandible growth, 492*

JARABAK, J. R.: bilateral mandibular condylar resection; upper face growth, 491*
——: bone growth; alizarin, 512*
——: mandibular condyle regeneration, 491*
——: radiocalcium; alizarin; bone mineralization, 511*
——: ——; skull and face, 511*
Jaw growth: tooth development; tooth eruption; relationship, 502*
JENSEN, J.: focal infection; experimental study, 481*
JONES, E.: bone growth and repair, 487*
JUMP, E. B.: anodic decalcification; teeth, 303*

KAPLAN, H.: enamel cuticle; epithelial attachment; microstructure, 478*
KAMINS, M.: radiocalcium; skull and face, 511*
KARSHAN, M.: ovarian function; periodontosis, 460*
KAUFFMAN, S.: lactobacilli; acid production; vitamins, 470*
KELLER, R. F.: albino rat caries; relative incidence, 382
KENNEDY, D. R.: focal infection; experimental study, 481*
KILLIAN, B.: caries enamel matrix, 690
KING, R. M.: ammonium ion dentifrice; caries control, 645
——: tetradecylamine; plaque formation, 399

KITCHIN, P. C.: actinomyces; dentobacterial plaque, 88
——: salivary lactobacillus counts; topical fluoride application, 251
KLAPPER, C. E.: salivary gland extirpation; caries; hamster, 486*
KLEIN, E.: x-ray diffraction microcamera; tooth structure, 439, 476*, 478*
KNIGHTON, H. T.: oral bacteria; effect on tetanus toxin, 481*
KOSER, S. A.: lactobacilli; acid production; vitamins, 470*
KRASNOW, F.: caries incidence; increase, 512*
——: I.A.D.R., Proceedings, New York Section, November 9, 1950, 304
——: ——, ——, ——, June 4, 1951, 599*
KRAUS, E. E.: self-curing resins; evaluation, 498*
KRAUS, F. W.: saliva; antibiotic levels, 495*
KRAUS, L. L.: self-curing resins; evaluation, 498*
KRESHOVER, S. J.: pulp response; injury, 512*
KUPFER, I. J.: hypercementosis; toxic goiter, 734
KUTSCHER, A. H.: dolorimetric evaluation; dental patients, 822

LACTATION: gingival changes, 19
Lactobacilli: acid production; vitamins, 470*
——: ammonia effects, 470*, 503*, 542
——: anaerobic glycolysis; ammonia urea, 656
——: antibiotics; enzyme inhibitors, 470*
——: bacteriological procedures, 472*
——: porphyrins, 469*
——: glycolytic enzymes, 471*
——: nucleic acids; Gram reaction, 471*
——: prophyrins, 469*
——: salivary count; topical fluorides, 251
——: selective medium, 472*, 682
——: sodium azide as monilia inhibitor, 302*
LAWFORD, F. H.: saliva; ammonia production, 385
LEBERKNIGHT, A. K.: quaternary ammonium compounds; dentifrices, 558
LEOPOLD, R. S.: dentin; bound cholesterol, 837
——: ——; ——; preservatives, 840
——: ——; protein; recovery, 565
LEROY, P.: cortisone; effect on rat fetuses, 488*
——: ——; rat growth, 488*
Leukoplakia: exfoliative cytology, 260
Levo-arterenol: vasoconstriction, 462*, 870
LEVY, B. M.: mandible development; amblystoma punctatum, 490*, 575
——: vitamin B complex deficiency; mandibular joint and periodontium changes, 337
LIKENS, R. C.: fluorine adsorption; specific surface area, 467*
——: teeth; fluorine content; fluorine consumption, 172
LIND, H. E.: penicillin resistance; streptococci; staphylococci, 112
LINGHORNE, W. J.: regeneration of alveolar process, 604
Lipids: dental tissues, 599*
LISANTI, V. F.: hamster studies; caries, 139
——: carious lesions; photoelectric determination, 513*
——: pulp recovery; heat injury, 486*
LITTLE, M. F.: ammoniated dentifrices; acid production; dental plaques, 495*
——: enamel surface; chemical studies, 477*
LITWIN, T.: histochemical evaluation; gingiva, 460*, 792
——: histochemistry; gingivae, 792
LOSEE, F. L.: dentinal protein; recovery, 565
LUDWICK, W. E.: lactobacillus counts; antibiotics; enzyme inhibitors, 470*
Ludwig's Angina: carotid sinus studies, 489*
LUKS, S.: antibacterial root canal cement, 475*
LUNDQVIST, C.: iodoacetic acid; caries, 203
LUSTER, E. A.: dimensional changes agar-agar gel, 281
Lymphocytes: gingiva, 486*, 627
Lysozyme: 482*, 494*

MAHLER, D. B.: articulation change; processing dentures, 500*
MALCOLM, J.: cetylamine; toxicity, 214
Malocclusion: Class I; comparative studies, 505*
——: masticatory function, 474*
Mandible: architecture; effect of temporalis muscle, 276
——: ——; Amblystoma punctatum, 490*, 575
——: condyle; position; orthodontic treatment, 507*
——: growth; effect of condyle removal, 492*, 520*
——: physiological rest position; edentulous, 517*
——: postnatal growth; Macaca mulatta, 502*
Mandibular condyle: degeneration, 491*
——: resection; mandibular growth, 492*
—— joint: vitamin B complex effects, 337
MANHOLD, V. W.: personality; periodontal conditions, 459*
MANLY, R. S.: chewing ability; denture wearers, 314
——: ——; dentition influence, 474*
——: masticatory function; malocclusion, 474*
——: —— performance; food platform area, 475*
——: —— ——; young adults, 874
——: silicate cements; physical properties, 145

MARCUS, M.: tooth fracture; delinquency, 513*
MARSHALL, M. S.: caries lesions, production in vitro, 482*
MARSHALL-DAY, C. D.: topical fluoride; caries; adolescence, 514*
MARTIN, D. J.: fluorine content; vegetables, 466*, 676
MARTIN, E. H.: oral bacteria; effect on tetanus toxin, 481*
MASSLER, M.: dentin; amalgam action, 514*
Mastication: inadequate; compensation, 474*
Masticatory apparatus: ear disturbance, 523*
—— function: bridgework, 475*
—— ——: changing dentition, 474*
—— ——: food platform area, 475*
—— ——: malocclusion, 474*
—— performance: young adults, 874
Materials: dental; thermal conductivity, 499*
MATHIS, H.: focal infection; diagnosis, 515*
MAVROGORDATO, T.: caries; fluorine, 225
Maxilla: growth; postnatal; Macaca mulatta, 501*
Maxillary orthopedics: prosthetics, 509*
MAYNARD, E. A.: complex fluorides; caries inhibition, 466*
McBRIDE, W. D.: porphyrin compounds; effect on lactobacilli, 469*
McCLURE, F. J.: fluorine adsorption; specific surface area, 467*
——: complex fluorides; caries; bone retention, 524*
——: teeth; fluoride content, fluoride consumption, 172
MEDAK, H.: attrition; eruption and growth rate; rat incisor, 521*
MEGIRIAN, D.: fluoride exchange; fluoride fixation, 476*
Metallic salts: salivary acid production, 494*
Micrococcus lactilyticus: dentobacterial plaque, 423, 482*
—— lysodeikticus: lysozyme effect, 482*
Microstructure: enamel cuticle, 478*
——: epithelial attachment, 478*
MILLER, P. N.: silicate cements; physical properties, 145
MILLER, S. C.: cornification; oral mucosa, 4
——: glossopyrosis; vitamin B_{12}, 515*
——: prescription procedures; vitamin therapy, 516*
Mineral stress: vitamin D; parathyroids, 508*
MITCHELL, D. F.: ammoniated dentifrices; hamster caries, 393, 486*
——: ——; periodontal disease, 516*
——: hamster caries; dietary sugar levels, 778
——: periodontal disease; hamster, 802
MITCHELL, J. A.: lactobacilli; selective medium, 472*, 682
Monilia: inhibition by sodium azide, 302*
MONTGOMERY, P. W.: exfoliative cytology; leukoplakia, 260
——: ——; oral carcinoma, 308
——: ——; oral mucosa, 12
MORGAN, W. A.: ammoniated dentifrices; urea and ammonium salts content, 388
MOORE, N. A.: lactobacilli; antagonistic organisms, 468*, 665
MOORREES, C. F. A.: dentition; Aleut, 815
MORTON, H. E.: pleuropneumonia-like organisms; saliva, 415
Mucosa: oral; cornification, 4, 12
——: ——; exfoliative cytology, 4, 12
Mucoprotein: parathyroid extract, 492*
MULLINS, C. E.: caries; rat; bilateral symmetry, 62
MUNTZ, J. A.: lactobacillus; ammonia; urea, 470*, 542
MYERS, H. I.: caries incidence; dental student, 465*
——: collagenase; oral environment, 493*
——: lactobacilli; antagonistic organisms, 468*, 665

NELSEN, R. J.: restorations; evaluating adaptation, 500*
NEMES, J. L.: micrococcus lysodeikticus; lysozyme effect, 482*
——: salivary lysozyme activity; x-radiation, 494*
Nerve supply: teeth, 265
NEUWIRTH, I.: acid production; oral microorganisms; lactic and pyruvic, 100
NEVIN, R. B.: caries; physicochemical factors, 235
NEVIN, T. A.: ammoniated dentifrices; oral lactobacillus counts, 503*
——: chlorophyll; effect on oral organisms, 469*
NEWTON, M.: lipids; dental tissues, 599*
NIKIFORUK, G.: demineralization; organic; chelating agents, 472*
NIZEL, A. E.: geographic variation; cariogenic effects; riboflavin, 485*
NORRIS, T. O.: ammoniated dentifrices; urea and ammonium salts content, 388
NUCKOLLS, J.: actinomycetes; carious lesions, 517*
——: caries; enamel matrix, 690
——: ——; in vitro, 482*
——: cultural characteristics; actinomycetes; lactobacilli; streptococci, 468*
——: histochemical reaction; calcium, 489*
——: proteinaceous materials; enamel, 479*
Nucleic acids: lactobacilli, 471*
NULLETT, P.: cultural characteristics; actinomycetes; lactobacilli; streptococci, 468*
Nutrition: see specific names of vitamins and elements and diet

OARTEL, J. S.: chemical compounds; dentin effects, 477*
Occlusal planes: facial structures, 505*
O'CONNELL, B. C.: regeneration of alveolar process, 604

OGILVIE, A. L.: sodium fluoride administration; salivary gland, 516*, 712
OLECH, E.: traumatic bone cysts, 517*
OLSEN, E. S.: physiological rest position; edentulous mandible, 517*
OMATA, R. R.: fusobacteria; sensitivity; antibiotics, 799
ONISI, M.: actinomycetes; carious lesions, 518*
ORLAND, F. J.: procaine; cutaneous hypersensitivity, 462*
Orthodontic appliances; biological effect, 521*
Orthodontic treatment; mandibular condyle position, 507*
OSBORNE, D. G.: mucinous polysaccharides; streptococci, 302*
Osteosclerosis: jaws, 521*
Ovarian function: periodontosis, 460*
OVERSTREET, S.: enamel decalcification; fluorides; zinc-ferro-nitrate, 75, 189, 195, 363

PAFFENBARGER, G. C.: self-curing resins; physical properties, 497*
Pain: dolorimetric evaluation; dental patients, 822
PALMER, H. B.: enamel decalcification; fluorides; zinc-ferro-nitrate, 75, 198, 195, 363
Parathyroid: effect on blood calcium and phosphorus, 487*
——: mineral stress, 508*
——: serum microprotein, 492*
PATTERSON, T. L.: motor and secretory functions; fish stomach, 518*
——: phylogenetic evolution; teeth, 491*
PEARLMAN, S.: anaerobic glycolysis; ammonia urea, 656
——: lactobacillus; ammonia; urea, 470*, 542
Penicillin: resistance; streptococci; staphylococci, 112
Periodontal disease: ammoniated dentifrice, 516*
——: hamster, 802
——: personality, 459*
Periodontium: attachment apparatus; examinations, 638
——: cortisone, 461*
——: regeneration, 604
——: vitamin B complex effects, 337
Periodontosis: ovarian function, 460*
——: poliomyelitis, 518*, 615
PERMAR, D.: salivary lactobacillus counts; topical fluoride applications, 251
Permeability: enamel, 480*
Personality: periodontal conditions, 459*
PETRIK, L.: maxillary orthopedics; prosthetics, 509*
PEYTON, F. A.: cutting efficiency; dental burs, 497*, 854
——: dental gold wires; tensile and bending properties, 290
——: gold wires: section size; mechanical properties, 745
——: rotational speed; temperature rise, 497*, 737
pH: intraoral; micro antimony electrode, 523*
PHILLIPS, R. W.: amalgams; variations in physical properties, 499*, 845
Phosphatase: alkaline; gingiva, 28, 792
Phosphorus: blood; vitamin D; parathyroid effects, 487*
Phylogenetic evolution; teeth, 491*
Physicochemical factors: caries, 235
Plastic teeth: bonding; denture bases, 501*
Pleuropneumonia-like organisms: saliva, 415
Poliomyelitis: periodontal disease, 518*, 615
Polycarboxylic acid: 484*
Polyphosphate: decalcification, 484*
Polysaccharide: mucinous; oral bacteria, 302*, 522*
Porphyrin: effect on lactobacilli, 469*
Pregnancy: gingival changes, 19
——: nutritional states, 19
Prescription procedures: vitamin therapy, 516*
Preservatives: dentinal protein, 840
Primary teeth: caries incidence, 464*
Procaine: cutaneous hypersensitivity, 462*
Protein: dentin; cholesterol, 837
——: ——; preservatives, 840
——: ——; recovery, 565
——: enamel, 479*
Psychiatric patients; caries, 806
Pulp: blood vessels; nerve supply, 265
Pulp reaction; heat, 486*
—— ——; injury, 512*
—— ——; self-curing acrylics, 498*, 524*
Pulp removal: chromatolysis; gasserian ganglion, 496*

RACE: dentition, 815
Radiation injury: teeth, 477*, 787
Radiation: ionizing; oral effects, 33, 787
Radioactive calcium: bone mineralization, 511*
—— iodine: tooth penetration, 304*, 480*, 728
Radioactivity: teeth, 302*
Radiocalcium: dentin penetration, 304*
——: filling material; margins, 473*
——: skull and face, 511*
Radiopacity: oral structures; intraoral method, 473*
Radiographic study: physiological rest position; edentulous mandible, 517*
—— studies: jaws; sickle cell anemia, 520*
RAE, J. J.: saliva; ammonia production, 385
RAMFJORD, S.: poliomyelitis; effects on periodontium, 519*, 615
RAPP, G. W.: intermediary carbohydrate metabolism; saliva, 494*
——: intracaine amide; local anesthetic, 462*
RASMUSSON, D. F.: analysis; facial structures; occlusal planes, 505*
RATHJE, W.: sympathicotony; salivary glands; caries, 783

Regeneration: alveolar process, 604
RESCA, H. G.: salivary acidity; yeasts, 426
Resins: self-curing; chemistry, 497*
——: physical properties, 497*
——: ——; evaluation, 498*
Rest position: edentulous mandible, 517*
Riboflavin: cariogenic effect; geographic variation, 485*
RICKLES, N. H.: topical fluoride application; young adults, 519*, 757
RING, J. H.: alkaline phosphatase; healing gingival wounds, 461*
RIZZO, D. R.: lactobacillus counts; evaluation, 472*
ROBERTS, R. M.: pulp response; injury, 512*
ROBINSON, H. B. G.: actinomyces, dentobacterial plaque, 88
——: Editor's Viewpoint, 1, 157, 305, 453, 601, 753
——: I.A.D.R. Proceedings; 29th General Meeting, 455
——: salivary lactobacillus counts; topical fluoride applications, 251
——, I.B.: sickle cell anemia; jaw studies, 520*
ROGOSA, M.: lactobacilli; selective medium, 472*, 682
ROSE, S.: glossopyrosis; vitamin B_{12}, 515*
ROTH, G. D.: collagenase; oral environment, 493*
ROTH, H.: prescription procedures; vitamin therapy, 516*
Root canal cement: antibacterial, 475*
ROVELSTAD, G. H.: infectious gingivostomatitis; aureomycin, 459

SACKS, M.: enamel decalcification; fluorides; zinc-ferro-nitrate, 75, 189, 195, 363
Saliva: acid production; metallic salt effects, 494*
——: —— ——; sodium monofluorophosphate, 466*
——: acidity; carbohydrate- and acid-containing substances, 126
——: ——; yeasts, 426
——: ammonia production, 385
——: amylase; sodium fluoride activation, 599*
——: ——; temperature changes, 130
——: antibiotic levels, 495*
——: buffer; bicarbonate, 403
——: carbohydrate metabolism; intermediary, 494*
——: lysozyme activity; x-radiation, 494*
——: pleuropneumonia-like organisms, 415
——: rate; dental caries, 783
——: yeasts, 468*
Salivary glands: dental caries, 486*, 783
——: fluorides, 516*, 712
SARNAT, B. G.: mandible growth; condyle removal, 520*
——, ——: sickle cell anemia; jaw studies, 520*
——: sutural facial growth; metallic implant studies, 506*
SAVARA, B. S.: caries; incidence; primary teeth, 464*
SAVCHUCK, W. B.: fluoride; growing skeleton, 467*
SCHERP, H. W.: bacteriological studies; advancing dentinal lesions, 766
SCHLACK, C. A.: caries; rat; bilateral symmetry, 62
——: dental caries; ionizing radiation, 787
——: selenium; caries incidence, 523*
SCHMITZ, L.: levo-arterenol; vasoconstrictor activity, 462*, 870
SCHNEYER, L. H.: salivary amylase; sodium fluoride activation, 599*
——: salivary amylase; temperature effects, 130
SCHOENBAUER, F.: osteosclerosis; jaws, 521*
SCHOUR, I.: attrition; eruption and growth rate; rat incisor, 521*
SCHRAM, W. R.: bone growth and repair, 487*
SCHWARZ, M.: orthodontic appliances; biological effect, 521*
SCOTT, D. B.: enamel cuticle; epithelial attachment; microstructure, 478*
——: enamel matrix; electron microscopy, 478*
——: thin sections; electron microscopy, 476*
SCRIVENER, C. A.: fluoridation; three-year study, 465*
——: lactobacilli; antagonistic organisms, 468*, 665
SEELIG, A.: self-curing resins; pulpal response, 498*
Selenium: caries incidence, 523*
SERIO, A. F.: bondiing; plastic teeth; denture bases, 501*
SHAFER, W. G.: chlorophyll; caries inhibition, 510*
SHAPIRO, H. H.: mandibular architecture; effect of temporalis muscle, 276
——: transplantation; developing teeth, 522*
SHIERE, F. R.: hamster studies; caries, 139
——: masticatory function; dentition influence, 474*
——: streptococcus salivarius; caries, 116
SICHER, H.: traumatic bone cysts, 517*
Silicate cements: physical properties, 145
Silver nitrate: dentin effect, 477*
SIMERAL, W. G.: thermal conductivity; dental materials, 499*
SIMON, W. J.: radiocalcium; marginal adsorption; filling material, 473*
SIMMONS, N. S.: defense mechanism; oral, 494*
SIMPSON, R. L.: pulp response, 512*
SIMRING, M.: prescription procedures; vitamin therapy, 516*
SIMS, J.: caries incidence; prevalence; school children, 464*
SKINNER, E. W.: acrylic denture bases, fit, 496*
——: tooth abrasion; nylon and natural bristles, 522*

SLAWSON, M. S.: monilia inhibition; sodium azide mechanism, 302*
SMITH, F. A.: fluoride; blood, 182
——: fluorides; complex; caries inhibition, 466*
SMITH, J. D.: salivary acid production; effects of metallic salts, 494*
SMITH, P. F.: pleuropneumonia-like organisms; saliva, 415
SNYDER, M. L.: mucinous polysaccharide production; oral bacteria, 522*
——: monilia inhibition; sodium azide mechanism, 302*
——: mucinous polysaccharides; streptococci, 302*
SOBERMAN, A.: cornification; oral mucosa, 4
Sodium monofluorophosphates; salivary acid production; hydroxy apatite solubility, 466*
SOGNNAES, R. F.: enamel matrix; electron microscopy, 478*
SOYENKOFF, B. C.: lipids; dental tissues, 599*
SPRING, K. L.: ear disturbance; masticatory apparatus, 523*
SREEBNY, L. M.: collagenous activity; saliva, 493*
——: demineralization; organic chelating agents, 472*
STAHL, S. S.: cornification; oral mucosa, 4
Staphylorocci: penicillin resistance, 112
STEPHAN, R. M.: rat caries; buccal and lingual surfaces, 484*
STONEL, I. C.: cortisone acetate; periodontal tissue, 461*
STORVICK, C. A.: dental caries; Williamette Valley region, 509*
STREET, E. V.: enamel walls; cavity preparation method, 473*
Streptococci, focal infection; experimental study, 481*
——: mucinous polysaccharides, 302*
——: penicillin resistance, 112
Streptococcus salivarius: caries, 116
SUD, V.: gingival changes; deficiency; pregnancy; lactation, 19
SUESS, P. H.: enamel solubility; fluorine, 177
Sugar: dietary; caries, 778
——: enamel permeability, 161
Sulfate solutions; effects on agar-agar gel, 281

TAKATA, G. K.: tooth abrasion; nylon and natural bristles, 522*
TAPIA, C.: fluoridized enamel; acid action, 515*
TAYLOR, A. C.: denervation and ischemia; dental effects, 265
TAYLOR, B. L.: caries; rat; bilateral symmetry, 62
TAYLOR, D. F.: dental gold wires; tensile and bending properties, 290
TAYLOR, R.: ammoniated dentifrices; acid production; dental plaques, 495*
Teeth: embryology, 490*
Temperature: effects on amylase, 130
—— rise: cavity preparation; rotational speed, 487,* 737
Temporalis muscle: effects on mandible, 276
TENNENBAUM, B.: ovarian function; periodontitis, 460*
Tensile: properties; dental gold wires, 290
Tetanus toxin: effects of oral bacteria, 481*
TETER, D. E.: caries; ionizing radiation, 787
Tetradecylamine: plaque formation, 399
Thermal conductivity: dental materials, 499*
THOMAS, B. O. A.: proceedings Pacific Northwest Section, 302
——: radiation injury; teeth, 477*
THOMPSON, F. C.: micro antimony electrode; intraoral pH, 523*
THOMPSON, J. R.: biliateral mandibular condyle resection; mandible growth, 492*
——: cephalometric radiographic studies; facial anomalies, 506*
——: vertical dimension; age, 504*
THRONDSON, A. H.: levo-arterenol; vasoconstrictor activity, 462,* 870
TILDEN, E. B.: lactobacillus counts; evaluation, 472*
Torus mandibularis: Aleut, 815
Toothbrush: bristle; tooth surface abrasion, 522*
Tooth eruption; tooth development; jaw growth; relationship, 502*
Toxicity: cetylamine, 214
Toxic goiter: hypercementosis, 734
TRAUTZ, O. R.: x-ray diffraction; microcamera; tooth structure, 439, 476,* 478*
TULLIS, J. L.: ionizing radiation; oral effects, 33
TURESKY, S.: histochemical evaluation; gingiva, 460,* 792
TURNER, N. C.: viral agent; dentinal destruction, 82

UREA: ammoniated dentifrices, 388
——: anaerobic glycolysis, 656*
——: lactobacillus, 470,* 542
——: see also ammoniated dentifrices
—— solutions: endodontics, 503*
USSING, M. J.: enamel cuticle; epithelial attachment; microstructure, 478*
——: enamel matrix; electron microscopy, 478*
——: thin sections; 476*

VAN AMERONGEN, J.: caries evaluation; reproducible method, 346
Vascular supply: teeth, 265
Vasoconstriction: levo-arterenol, 462,* 870
VAUGHN, R. C.: temperature rise; rotational speed, 497,* 737
Vegetables: fluorine content, 466,* 676
VEHE, L.: alizarin; bone growth, 512*
Versene: decalcification, 484*
Vertical dimension; occlusal rest; age, 504*
VILLA, V. G.: enamel matrix; histologic technique, 431

VINTON, P. P.: chewing ability; denture wearers, 314
Virus: dentinal destruction, 82
Vitamin B complex: mandibular joint; periodontium, 337
Vitamin B_{12}: glossopyrosis, 515*
—— D: effect on blood calcium and phosphorus, 487*
—— D: mineral stress, 508*
—— E: enamel depigmentation, 508
—— lactobacilli: acid production, 470*
—— therapy: prescription procedures, 516*
VOLKER, J. F.: caries production; hamster; age, 484*
VON HAAM, E.: exfoliative cytology; oral carcinoma, 308
——: ——; leukoplakiia, 260

WACHTL, C.: enamel; permeability, 480*
WAH LEUNG, S.: bicarbonate; salivary buffer effect, 403
WAINWRIGHT, W. W.: dentin permeability; radioactive materials, 480*
WALSH, J. P.: caries; physicochemical factors, 235
——: enamel decalcification; surface active agent, 218
WARNER, B. W.: caries incidence; dental students, 465*
——: lactobacilli; antagonistic organisms, 468,* 665
WEINMANN, J. P.: traumatic bone cysts, 517*
WEISENGREEN, H. H.: Ludwig's angina; carotid sinus studies, 489*
WELCH, F. E.: silicate cements; physical properties, 145
WHEATCROFT, M. G.: caries; rat; bilateral symmetry, 62
——: micrococcus lysodeikticus; lysozyme effect, 482*
——; salivary lysozyme activity; x-radiation, 494*
——: selenium; caries incidence, 523*
WILLIAMS, N. B.: pleuropneumonia-like organisms; saliiva, 415
WINKLER, K. C.: caries evaluation; reproducible method, 346
WISEMAN, R. F.: lactobacilli; selective medium, 472,* 682
WOLCOTT, R. B.: restorations; evaluating adaptation, 500*
WOLF, W.: fluoridation; caries experience; 12-, 13-, 14-year-olds, 465,* 670
WUEHRMANN, A. H.: radiopacity; intraoral method, 473*
WYCKOFF, R. W. G.: enamel matrix; electron microscopy, 478*
——: thin sections; electron microscopy, 476*

X-RAY diffraction; microcamera; tooth structure, 439, 476,* 478*
——: rodent enamel, 828
——: edentulous jaws, 504*
——: oral effects, 33
——: radiation: 494*
——: radiopacity, 473*
X-radiation: salivary lysozyme activity, 494*

YEASTS: saliva, 468*
——: salivary acidity, 426
YOUNG, G.: salivary acidity; yeasts, 426
YURKSTAS, A.: carious lesions; photoelectric determination, 513*
——: functional evaluation; bridgework, 475*
——: inadequate mastication; compensation, 474*

ZANDER, H. A.: hamster studies; caries, 139
——: penicillin resistance; streptococci; staphylococci, 112
——: pulp reaction; resinous filling materials, 524*
——: —— recovery; heat injury, 486*
ZEIDENSTEIN, S.: labial and buccal glands; fetal origin, 587
ZIMMERMAN, A. A.: labial and buccal glands; fetal origin, 587
Zinc-ferro-nitrate; enamel decalcification, 75, 189, 195
——: dentin effects, 477*
ZIPKIN, I.: decalcification versene polycarboxylic acids; polyphosphates, 484*
ZIPKIN, I.: complex fluorides; caries; bone retention, 524*
ZWEMER, E.: fluoridized enamel; acid action, 515*
ZWIRNER, E.: alveolo-dental joint; examination technique, 638